



PRESS RELEASE

Milan, 8 - 12 May 2012

For immediate release



MILANO, 8/12 MAGGIO 2012
SALONE INTERNAZIONALE DELLE MATERIE PLASTICHE E DELLA GOMMA
INTERNATIONAL EXHIBITION FOR PLASTICS AND RUBBER INDUSTRIES

RADICIGROUP PRESS CONFERENCE
9 May – 11.00 am • RadiciGroup Stand

RadiciGroup innovations arrive at PLAST 2012: focus on the Radilon® D PA610 line.

The RadiciGroup product range for the automotive industry has arrived in Milan for Plast 2012, the International Exhibition for the Plastics and Rubber Industries, taking place in Milan, Italy, from 8 to 12 May.

Focus on:

- **RADILON® D**, a family of PA610 engineering plastics featuring a smaller environmental footprint and developed thanks to the synergies between RadiciGroup Plastics and the Radici Chimica SpA research and development centre.

Among the RadiciGroup products for the automotive industry:

- **RADILON® A HHR (HIGH HEAT RESISTANT)**: PA66 engineering plastics with exceptional heat resistance to ageing in air at temperatures of up to 210°C.
- **RADILON® A RV500 RW 339 and RADILON® S URV**: PA6 and PA66 engineering plastics for use as metal and thermosetting material replacements.
- **RADILON® A RV300 HRG 3900 NER and RADILON® A GF300 RKC NER**: glycol-resistant PA66 engineering plastics.

Other RadiciGroup products at the trade show:

- **RADIFLAM® S, RADIFLAM® A and RADIFLAM® B:** flame-retardant PA6, PA66 and PBT products for injection moulding and extrusion.
- **HERAFLEX® E:** thermoplastic elastomers (TPC-ET) for injection moulding.

After being showcased at the NPE show in Orlando, Florida, USA, and the CHINAPLAS exhibition in Shanghai, the latest innovations in engineering plastics developed by RadiciGroup Plastics for the automotive sector have arrived in Milan, Italy, for PLAST 2012, the biggest international trade fair of the year in Europe for the plastics and rubber Industries.

At the Milan trade show, the RadiciGroup Plastics Business Area will be represented by lead company **Radici Novacips SpA**, a firm founded in 1981 that ushered the Group into the plastic business. Today, Radici Novacips, with two production sites in the province of Bergamo, Italy (Villa d'Ogna and Chignolo d'Isola) and a staff of 147 employees, serves as the headquarters for an international organization having production and sales units all over the world, in addition to Italy: Europe (France, Germany, the United Kingdom, Spain), North America (the United States of America), South America (Brazil) and Asia (China and India).

In Europe and the Mediterranean countries, the year 2012 started off with greater than expected demand for RadiciGroup Plastics products. In 2011, sales in Europe – where RadiciGroup Plastics has basically managed to hold on to, and in a few cases, increase its market share – made up 58% of total RadiciGroup Plastics sales revenues. Sales rose in Germany and France, which together with Italy make up the main European outlet market for the RadiciGroup Plastics business.

"During 2011 the Italian market yielded good results, by contributing 17% of the entire sales revenues of our business area," **Enrico Facciolo**, RadiciGroup Plastics sales manager for Italy and the Iberian Peninsula, said. "In spite of the sudden slowdown during the last quarter of 2011, the year closed in a positive way, in line with 2010. The fine results were achieved, to a great extent, thanks to our widespread sales network in Italian territory."

"Today," Mr. **Facciolo** continued, "it is vital for us to pursue the development of products that meld innovation and sustainability: new developments for the auto industry, like the product range we have brought to this year's Plast, and more. Our goal is to make products for all our target markets that can offer application advantages such as reduced environmental impact, lower weight and optimized performance. The synergies and collaboration with Italian Radici Chimica SpA – lead company in the RadiciGroup Chemicals Business Area engaged in the manufacture of polymers and intermediates – play a key role. RadiciGroup Plastics is in all effects a global enterprise, but we will always continue to invest on sustainable innovation in the Italian market for our Italian customers. And we are focusing our growth efforts in this direction."

SOLUTIONS FOR THE AUTOMOTIVE INDUSTRY ...

The RadiciGroup product portfolio for the automotive sector stands out for its innovation, smaller environmental footprint, high performance and quality. The high-performance characteristics of these new engineering plastics make them ideal for the manufacture of parts to be installed under the bonnet, where high-temperature stress (temperatures often exceeding 100°C) and the presence of aggressive liquids, such as gasoline and oil, create a particularly difficult engineering challenge. Also suitable for use as metal and thermosetting material replacements, the new products developed by RadiciGroup Plastics for the automotive sector guarantee high performance as well as reduced environmental impact.

AT PLAST 2012, FOCUS ON RADILON® D...

Ideal for injection moulding and extrusion, **Radilon® D** engineering plastics are produced using 60% organic polymer. The ingredients come from a renewable resource material, castor seed oil, obtained from the castor



oil plant (*Ricinus Communis*). RadiciGroup PA610 products, which have been developed thanks to the synergies between RadiciGroup Plastics and the Radici Chimica SpA research and development centre, feature reduced environmental impact, as well as

properties that are equal, if not superior, to those of traditional polyamides.

Compared to polyamides PA6 and 66, Radilon® D shows:

- Reduced moisture uptake.
- Less loss of tensile strength and tensile modulus under wet conditions.
- Better chemical resistance in contact with zinc chloride and calcium chloride solutions.
- Better glycol resistance.

Compared to polyamides PA11 and 12, Radilon® D shows:

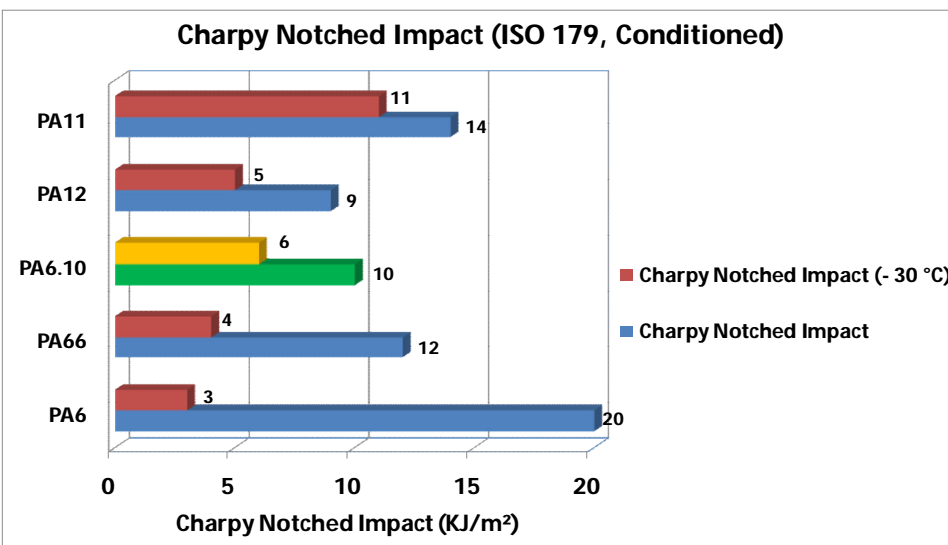
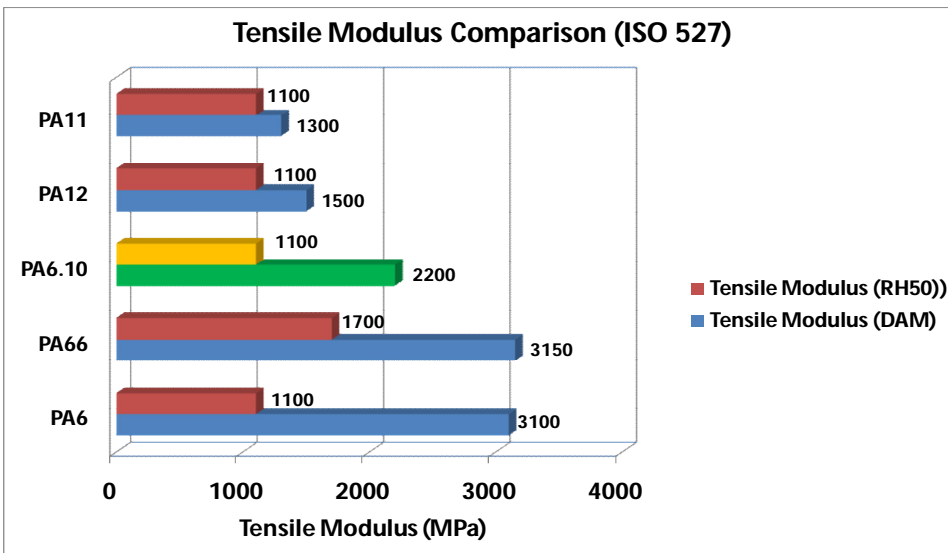
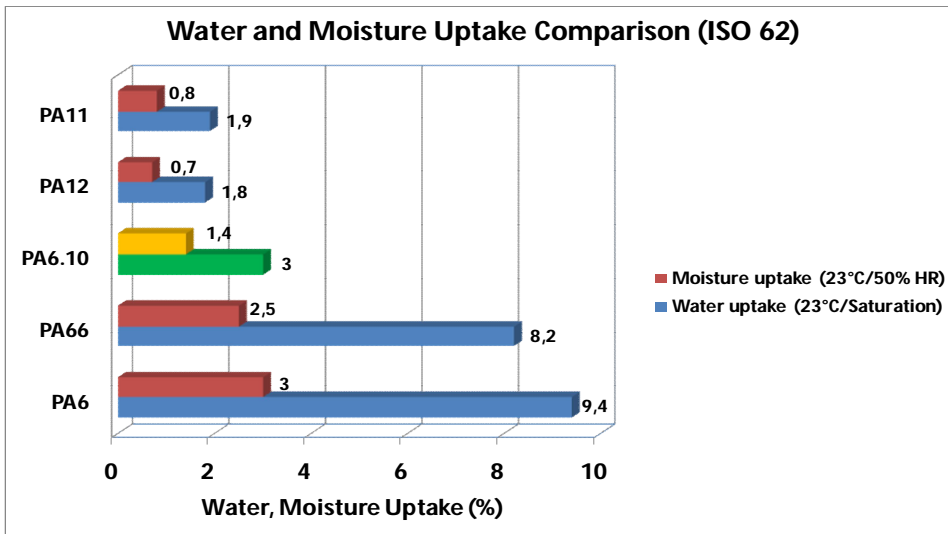
- Better heat resistance.
- Lower hydrocarbon permeability.

Main applications of Radilon® D in the automotive sector:

- Fuel line connectors, pneumatic conduits, brake lines, fuel lines, under-the-bonnet components.

See page 4 for comparison graphs.

COMPARISON GRAPHS



RADILON® A HHR (HIGH HEAT RESISTANT)...

PA66 engineering plastics with exceptional heat resistance to ageing in air at temperatures of up to 210°C.

- **Main applications: intercooler trays, turbo ducts and manifolds, resonators.**

At PLAST 2012 the spotlight will be on **RADILON® A BMV200 HHR 3800 NER** high-performance blow-moulding materials, 20% glass-fibre-filled PA66 engineering plastics with properties that make them ideal for applications such as turbo ducts (hot side), and **RADILON® A BMV150 HHR 3800 NER**, 15% glass-fibre-filled PA66 plastics with excellent heat resistance. Among the moulding products showcased are **RADILON® A RV350 HHR 3800 NER** 35% glass-fibre-filled PA66 engineering plastics specifically developed for the automotive industry for applications such as intercooler trays, turbo ducts and resonators.

RADILON® A RV500 RW 339

50%-glass-fibre-filled PA66 engineering plastics ideal as metal and thermosetting material replacements

Main applications: engine mounts, gearbox housings.

Compared to traditional PA66 engineering plastics, RADILON® A RV500 RW 339 materials ensure higher tensile strength and deformation at break, higher tensile strength and deformation at break in the presence of joint lines, and greater impact resistance under both wet and dry conditions.

RADILON® S URV

High-fluidity PA6 engineering plastics – 50%- and 60%-filled versions – ideal for structural components that were once made of metal.

- **Main applications: car seat frames.**

RADILON® A RV300 HRG 3900 NER

RADILON® A GF300 RKC NER

Glycol-resistant 30%-glass-fibre-filled PA66 engineering plastics.

- **Main applications: radiator tanks, thermostat housings, fittings.**

In producing the **RADILON® A RV300 HRG 3900 NER** line, both the polymer and compound have been optimized in order to maximize the glycol resistance properties. Some of the features of these materials are excellent mechanical properties (modulus and load), excellent impact strength, good processability and mouldability, and good wear and fatigue resistance even at high temperatures.

RADILON® A GF300 RKC NER materials are characterized by high content of recycled polyamides coming from a controlled source, superior mechanical properties and excellent reliability. These low environmental impact RadiciGroup products are ideal for critical automotive components.

During PLAST 2012, RadiciGroup Plastics is also presenting the **RADIFLAM® S, RADIFLAM® A and RADIFLAM® B** PA6, PA66 and PBT flame-retardant lines for injection moulding and extrusion, and **HERAFLEX® E** thermoplastic elastomers (TPC-ET) for injection moulding.

FOR MORE INFORMATION ON OUR PRODUCT PORTFOLIO:

Sales: **Enrico Facciolo**, RadiciGroup Plastics sales manager for Italy and the Iberian Peninsula







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RADICIGROUP PLASTICS PRODUCT RANGE...

RadiciGroup Plastics products are used in applications not only in the automotive industry but also in the electrical/electronics, industrial and consumer goods sectors.

PA6, PA66, PA610 engineering polymers and copolymers	PA6, PA66 and PBT flame retardants	PBT
		
PA6 and PA66 green products	POM	TPEs
		



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RADICIGROUP PRESS CONFERENCE

On **Wednesday, 9 May**, at **11.00 a.m.** at its stand **C63 D54 / Hall 9**, RadiciGroup will hold a press conference on the topic **New Special Polyamides for the Challenges of Today and Tomorrow**.

Speaker: **Erico Spini**, *Marketing&Application Development Director of RadiciGroup Plastics*.

IN THE PLASTICS INDUSTRY RadiciGroup is one of the most highly regarded manufacturers of polyamide and polyester engineering plastics. With six plants strategically located in Italy, Brazil, the United States, Germany and China, RadiciGroup Plastics offers processing, quality control, research and development, and technological development support. A network of sales units – with a strong presence in Italy, Germany, France, Spain, Great Britain, the USA, Brazil, China and India – makes RadiciGroup Plastics a truly global organization, capable of meeting the needs of its customers worldwide on a timely basis. WWW.RADICIGROUP.COM/PLASTICS

RADICIGROUP 3,500 employees. Production and sales sites in Europe, North America, South America and Asia. Diversified businesses focusing on chemicals, plastics and synthetic fibres. Know-how. Vertically integrated nylon production. Constant commitment to guaranteeing its customers quality, sustainable innovation and reliability. All this is RadiciGroup, a leader in nylon chemicals. RadiciGroup products are used in applications such as apparel, sports, furnishings, automotive, electrical/electronics, household appliances and consumer goods. WWW.RADICIGROUP.COM RadiciGroup, with its Chemicals, Plastics and Synthetic Fibres Business Areas controlled by parent company Radici Partecipazioni SpA, is part of a larger industrial group that also includes textile machinery and energy businesses. WWW.RADICI.COM

PRESS OFFICE

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